

ent ional Application No

A CLASSII IPC 7	HCATION OF SUBJECT MATTER H03K4/02								
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS SEARCHED .									
Minimum documentation searched (classification system followed by classification symbols) IPC 7 H03K .									
Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched									
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, IBM-TDB, INSPEC, EPO-Internal									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where appropriate, of the rele	Relevant to claim No.							
χ .	US 5 606 296 A (SEONG HWAN-HO) 25 February 1997 (1997-02-25) column 3, line 33 -column 3, line figure 3	1-3,5,10							
X .	US 6 384 645 B2 (CLERIS MAURO ET 7 May 2002 (2002-05-07) column 3, paragraph 2; figure 3	1-4,8,10							
X	US 6 169 433 B1 (FARRENKOPF DOUGLAS ROBERT) 2 January 2001 (2001-01-02) abstract; figure 1		1,2						
		-							
Further documents are listed in the continuation of box C. X Patent lamily members are listed in annex.									
*Special categories of cited documents: 'A" document defining the general state of the art which is not considered to be of particular relevance 'E" earlier document but published on or after the International filing date 'L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O" document referring to an oral disclosure, use, exhibition or other means 'P" document published prior to the international filing date but later than the priority date claimed Date of the actuel completion of the international search "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined to the international filing date but is the application of the international filing d									
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RNATIONAL SEARCH REPORT

Interiorial Application No PCT/EP 03/50705

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5606296	A	25-02-1997	KR DE JP	154797 B1 19605655 A1 9046198 A	15-12-1998 30-01-1997 14-02-1997
US 6384645	B2	22-11-2001	EP US	1143617 A1 2001043096 A1	10-10-2001 22-11-2001
US 6169433	B1	02-01-2001	US	6111440 A	29-08-2000

Form PCT/ISA/210 (patient family ennex) (July 1992)